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## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) A heat-resistant glass fiber which has a composition ecomprising consisting essentially of, by weight %, 56 to 58.5% of SiO<sub>2</sub>, 12 to 17% of Al<sub>2</sub>O<sub>3</sub>, 16 to 27% of CaO, 1 to 9% of MgO, 0 to 1% of Na<sub>2</sub>O and 0 to 1% of K<sub>2</sub>O as the entirety of the fiber and containing neither B<sub>2</sub>O<sub>3</sub> nor F<sub>2</sub>, and which has a surface layer portion made of a silicic glass having an SiO<sub>2</sub> content of at least 90% by weight, wherein the fiber substantially retains its flexibility when heated for ten hours at 900°C.
- 2. (Original) The heat-resistant glass fiber of claim 1, wherein the surface layer portion made of a silicic glass having an  $SiO_2$  content of at least 90% by weight has a thickness of 0.1 to 1.0  $\mu m$ .
- 3. (Original) The heat-resistant glass fiber of claim 1, wherein a difference ΔT between a spinning temperature which is a melting temperature of a glass having a viscosity of 100 Pa·s and a liquidus temperature is at least 30°C.
- 4. (Original) A process for the production of the heat-resistant glass fiber recited in claim 1, which comprises treating the surface of a glass fiber which has a composition comprising, by weight %, 56 to 58.5% of SiO<sub>2</sub>, 12 to 17% of Al<sub>2</sub>O<sub>3</sub>, 16 to 27% of CaO, 1 to 9% of MgO, 0 to 1% of Na<sub>2</sub>O and 0 to 1% of K<sub>2</sub>O and containing neither B<sub>2</sub>O<sub>3</sub> nor F<sub>2</sub>, with a mineral acid.

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- 5. (Original) The process of claim 4, wherein the treatment is carried out by immersing the glass fiber in an aqueous solution containing, as the mineral acid, 1 to 10% by weight of at least one acid selected from HCl, H<sub>2</sub>SO<sub>4</sub> or HNO<sub>3</sub> at a temperature of 0 to 90°C.
- 6. (Currently Amended) A heat-resistant glass fiber which has a surface layer portion at least 0.01 μm thick, made of silicic glass having an SiO<sub>2</sub> content of at least 90%, the balance of the glass fiber having a composition emprising consisting essentially of, by weight %, 56 to 58.5% of SiO<sub>2</sub>, 12 to 17% of Al<sub>2</sub>O<sub>3</sub>, 16 to 27% of CaO, 1 to 9% of MgO, 0 to 1% of Na<sub>2</sub>O and 0 to 1% of K<sub>2</sub>O as the entirety of the fiber and containing neither B<sub>2</sub>O<sub>3</sub> nor F<sub>2</sub> wherein the fiber substantially retains its flexibility when heated for ten hours at 900°C.